

## About reasons for emergence of high-frequency current pulsation in electric discharges with direct contact to the liquid electrolyte

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### Abstract

Consideration is made to the experimentally investigated electrical discharges in atmospheric pressure between the liquid electrolyte and metal electrodes in various embodiments of the polarity for their connection to a power supply. Obtained and analyzed are the spectra of the current signals in the megahertz range of frequencies. It is revealed that emergence of high-frequency current pulsation is accompanied by phenomena of dispersion and erosion of the electrodes.

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### Keywords

Electrolytic anode, Electrolytic cathode, Gas discharge, High-frequency current pulsation, Liquid electrode